

Abstract of the Disclosure

This invention discloses a PACAP receptor protein or a salt thereof, a DNA comprising a DNA fragment coding for the protein, a method for preparing the protein, antibody against the protein and use of the protein, DNA and antibodies.

A PACAP receptor protein was purified from the bovine cerebrum. DNAs coding for PACAP receptor proteins were isolated from bovine, rat and human cDNA libraries, and their nucleotide sequences were determined. Further, amino acid sequences deduced from the nucleotide sequences were determined.

The PACAP receptor proteins and the DNAs coding for the proteins of the present invention can be used for (1) acquisition of antibodies and antisera, (2) construction of expression systems of recombinant receptor proteins, (3) development of receptor binding assay systems using said expression systems and screening of potential compounds for drugs, (4) execution of drug design based on the comparison of ligands and receptors which are structurally similar to each other, (5) preparation of probes and PCR primers in gene diagnosis, and the like.